Wireless LAN

Indoor and Outdoor, Get Non-stopped Connection

Wireless LAN is changing current network structure rapidly. Due to the popularity of the mobile computing devices such as notebooks and PDAs. Users are anxious to free themselves from constraints of cables. Enterprises are considering deploying their own WLAN.

PLANET provides both indoor and outdoor wireless solutions in accordance with different purposes and demands. With the implementation of 802.1x, , WPA (Wi-Fi Protected Access) and WPS (Wi-Fi Protected Setup) , wireless LAN users have a high level of assurance that their data will remain protected and that only authorized users can access the network.

However, the system integrators may still find it is difficult to use IEEE 802.11 technologies in a large scale area because of the sophisticated manage task and layer 2 only capability. PLANET MESH Network offers a perfect solution for such deployment. Combining the functions of central management and layer 3 routing intelligence, PLANET MESH Network provides a secure and seamless roaming beyond traditional WLAN boundaries.

802.11n Wireless Router

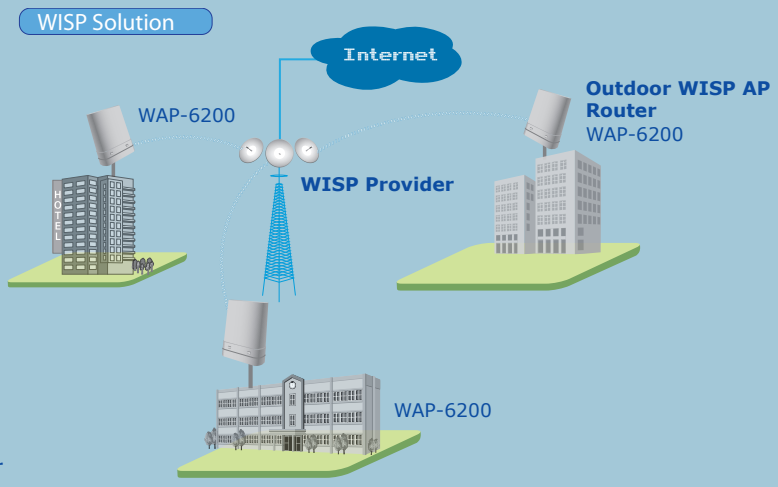
- Wireless connection without hassles and cost of cabling
- Extend wireless distance, Enhance wireless performance
- Compliant with wireless industrial standards
- High security with WEP, WPA, WPA2 and 802.1x
- User-friendly interface to ease the management

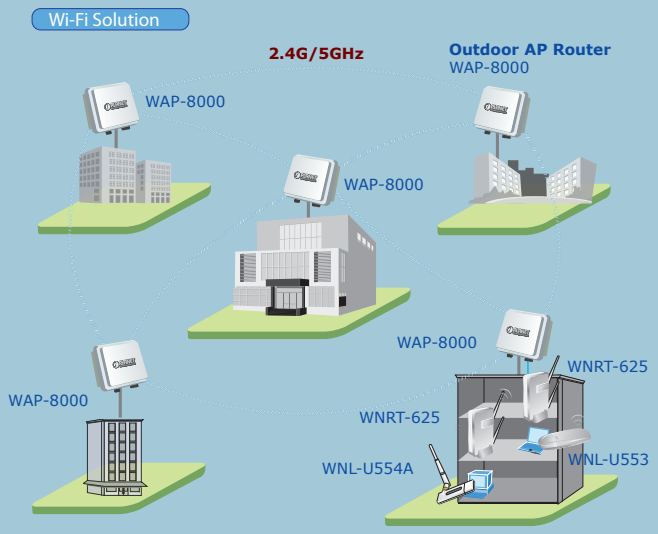
PLANET Wireless LAN Integrated Solution

PLANET integrates wireless solution not only Indoor but also Outdoor Wireless LAN Solution, considering all kinds of applications, environments, has various solution matching your WLAN demand.

■ WISP Solution

Compared with traditional ISP provider that offers wired internet service, take a turn to instead of WISP solution, provides more elasticity, more effective and low cost wireless internet service, no limitation of place, environment, wherever in small residence, middle campus or LAN, WISP is indeed a perfect wireless network solution.



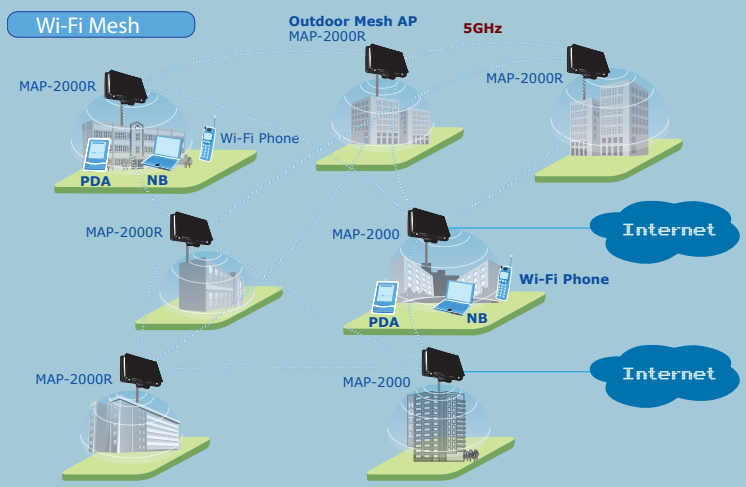


■ Outdoor Wi-Fi LAN Solution

Provides a middle / small business or SOHO wireless LAN extremely network data transmission solution, wherever in campus, residence, business building, connect a wireless point to point/ multiple point to multiple point bridge, general data transmission or media transmission like surveillance monitor between buildings, also suitable in widely range distance connection, more convenient application solution.

■ Mesh Network

In mesh wireless network, user can easily, freely mobility shift anywhere, whatever using radio communication device, surfing Internet, transmitting data or media audio/voice. No limitation of the amount of users, feature in network stream and monitor control in any Mesh AP, users can easily enjoy wireless network, anytime, any where.



Wireless Access Point

WNAP-1120 / WNAP-1120PE

802.11n Wireless Access Point

- IEEE 802.11n (Draft 2.0) Compliant with 802.11b/g standard
- Wireless technology capable of up to 300Mbps transmitting data rate
- Supports Wi-Fi Protected Setup (WPS)
- Supports 802.3af PoE (WNAP-1120PE)
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x)
- AP / AP Client / Bridge Point-to-Point / Bridge Point-to-MultiPoint / WDS / Repeater modes supported

WNAP-1120 / WNAP-1120PE

WNAP-3000PE

802.11n Enterprise PoE Access Point

- IEEE 802.11n draft 2.0, high data transfer rate up to 300Mbps
- Supports PoE port (IEEE 802.3af compliant)
- Strong network security with WEP, WPA(PSK), 802.1x authentication
- With 3 detachable RP-SMA connectors for expanding of external antenna connection distance
- Five operation modes selectable: AP / AP Client / Wireless Bridge / Multiple Bridge / Repeater
- Multiple SSID, Multiple SSID isolation, 802.1Q VLAN, RADIUS MAC authentication
- SNMP v1, v2, v3 supported

WAP-4033 / WAP-4033PE / WAP-4035 / WAP-4036 / WAP-4060PE

54Mbps/108Mbps Wireless Access Point

- Compliant with 802.11g / 802.11b standard
- Provides Setup Wizard for the user to configure easily in the first time
- Supports AP/ AP Client/ Bridge/ Repeater and WDS (Wireless Distributed System) modes
- Supports WEP/WPA/WPA2 encryption
- Supports DHCP server
- Supports MAC / URL Filter

	WAP-4033	WAP-4033PE	WAP-4060PE	WAP-4035	WAP-4036
Super G (108 Mbps)	-	-	■	-	-
LAN Port	1	1	1	5	1
PoE (IEEE 802.3af)	-	■	■	-	-
Mutiple SSID	-	-	■	-	-
Built-in RADIUS Server	-	-	-	■	-
SNMP	-	-	■	-	-

WAP-4033

WAP-4035

WAP-4036

WDAP-2000PE

54/108Mbps Super A+G WLAN Managed Access Point with PoE

- Wireless LAN IEEE802.11a/b/g standards compliant
- Supports PoE port (IEEE802.3af compliant)
- Supports 64/128/152-bit WEP encryption with 802.1x authentication, and, WPA/WPA2 with PSK/TKIP/AES support
- Super A/G mode efficiently raises the data transfer rate up to 108Mbps
- Operation modes selectable: AP / Repeater / WDS (Bridge mode)
- Adjustable transmit power
- Provides Web and CLI (Command Line Interface) Configuration
- SNMP management support (V1/V2, Traps, MIB2, IF MIB, Ether-like MIB, 802.11-MIB)
- Supports Multiple SSIDs, 802.1Q VLAN, 802.1p QoS, DiffServ, RADIUS MAC authentication, DoS Prevention, MAC filtering.

WDAP-2000PE

Wireless AP Router

WNRT-630 / WNRT-626 / WNRT-625 / WNRT-625G

802.11n Wireless Broadband Router

- IEEE 802.11n (Draft 2.0) wireless technology Compliant with 802.11g / 802.11b standard
- Supports Wi-Fi Protected Setup (WPS)
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x) functions for high level of security
- AP (AP Client) / Bridge Point-to-Point / Bridge Point-to-MultiPoint / WDS / Repeater modes supported
- Equipped with 4 LAN ports and 1 WAN port, Auto-MDI/MDI-X supported
- System status monitoring including Active DHCP Client, Security Log and Device/Connection Status
- Remotes Management allows configuration and upgrades from a remote site
- DHCP/PPPoE/PPTP/L2TP/Fixed IP allocation
- MAC/IP filter access control, URL blocking, SPI firewall + DoS prevention protection
- Dual WAN Interfaces: WAN port for cable or wired DSL service + 3G mobile connection (WNRT-625G)
- Supports UMTS / HSDPA Mobile Internet Service (WNRT-625G)

WNRT-630

	WNRT-625G	WNRT-625	WNRT-626	WNRT-630
Antenna	Fixed x 2	Fixed x 2	Fixed x 1	Fixed x 3
Data Rate	300Mbps	300Mbps	150Mbps	300Mbps
MIMO technology	2T2R	2T2R	1T1R	2T3R
3G Mobility	■	-	-	-
Gigabit Ethernet	-	-	-	■
WISP mode	-	■	-	-

WNRT-625G

WRT-414 / WRT-416

802.11g Wireless Broadband Router

- Compliant with 802.11g / 802.11b standard
- Build-in 4 -port switch
- Easy to use Web-based GUI for configuration and management purposes
- Provides Setup Wizard for the user to configure easily in the first time
- Supports 64/128-bit WEP, WPA, WPA2 Encryption
- Supports DHCP server
- Supports MAC / URL Filter
- Supports DDNS, virtual server and DMZ

WRT-416

	WRT-414	WRT-416
WISP mode	■	-
Wireless Operating Mode	AP, AP Client, WDS, Bridge	AP, WDS, AP+WDS

Wireless USB / PCI Adapter

WNL-U552 / WNL-U554 / WNL-U554A

802.11n Wireless USB Adapter

- 2.4GHz ISM band, unlicensed operation
- Compliant with IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
- USB 2.0 attached interface
- Supports Wi-Fi Protected Setup (WPS)
- Supports 64/128-bit WEP, WPA, WPA2
- Supports most popular operating systems including Windows 2000 , XP , and Vista

	WNL-U552	WNL-U554	WNL-U554A
Data Rate	300Mbps	150Mbps	150Mbps
MIMO technology	2T2R	1T1R	1T1R
Antenna	Built-in	Built-in	SMA External x 1
WMM	■	■	■
Software AP mode	■	■	■
Cisco CCX support	■	■	■

WNL-9320 / WNL-9330 / WNL-9500

802.11n Wireless PCI Adapter

- 2.4GHz ISM band, unlicensed operation
- Compliant with IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (draft 2.0)
- Supports Wi-Fi Protected Setup (WPS)
- Supports WEP , WPA, WPA2 high-level security mechanisms
- Supports WMM (Wi-Fi Multi-Media) function to meet the multi-media data bandwidth requirement. (the connected AP and the application must support WMM as well)
- Supports Software AP mode
- QoS function: Control the bandwidth required for different applications
- Supports most popular operating systems including Windows 2000 , XP and Vista

	WNL-9320	WNL-9330	WNL-9500
Data Rate	300Mbps	150Mbps	300Mbps
MIMO Technology	2T3R	1T2R	2T3R
Interface	PCI v2.1 / 2.2	PCI v2.1 / 2.2	PCI Express 1.0a

WL-U356L / WL-8317

802.11g Wireless USB/PCI Adapter

- IEEE 802.11b/g standard compliant
- Provides up to 54Mbps data rate at 2.4GHz
- Supports 64/128-Bit WEP, WPA, WPA2, WPA-PSK, and WPA2-PSK for high level of security
- Support of Ad-Hoc / Infrastructure mode
- Support of most popular operating systems including Windows 98SE/ME/2000/XP/Vista

	WL-U356L	WL-8317
Interface	USB 1.1/2.0	PCI 2.1/2.2

WL-3560 / WL-U357

Super G Wireless PCMCIA USB Adapter

- Wireless LAN IEEE 802.11g and 802.11b standards fully compliant
- Wireless connection without the difficulty and cost of cabling
- Based on 2.4GHz Direct Sequence Spread Spectrum (DSSS) Technology
- Supports eXtended Range technology to operate at 108Mbps data rate in high SNR (signal-to-noise ratio) environment, and process extremely low signal in low SNR environment.
- Supports 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA) for 802.1x and WPA-PSK
- Supports Ad-Hoc (Peer to Peer) communication and Infrastructure mode with Access Point
- Supports most popular operating systems including Windows 98/Me/2000/XP
- Supports Power Save mode
- Plug-and-Play installation

Outdoor WLAN

WAP-6200 / WAP-6100 / WAP-6000 / WAP-7000 / WAP-8000

802.11a/b/g Wireless LAN Outdoor Bridge AP

- Solid housing provides protection against rigorous weather conditions
- Four operating modes support: AP, Wireless Bridge, Wireless Client, and Repeater
- Strong network security with 64/128/152-bit WEP encryption, WPA and WPA-PSK
- 5 levels of adjustable transmit power control
- Support DHCP Client
- Provides “Connection Status” indication for Repeater and Client modes
- Power over Ethernet design

WAP-8000

WAP-6000

WAP-6100

WAP-6200

		WAP-6200	WAP-6100	WAP-6000	WAP-7000	WAP-8000
Wireless Standard		802.11b/g Turbo mode	802.11b/g Super G mode (108Mbps)	802.11b/g Super G mode (108Mbps)	802.11a Turbo mode (108Mbps)	802.11a/b/g Super A+G mode (108Mbps)
Antenna		Built-in 14 dBi patch Panel	Built-in 12 dBi patch Panel	N-type RP-Female connector	N-type RP-Female connector	N-type RP-Female connector
H-Plane		30°	70°	-	-	-
V-Plane		30°	30°	-	-	-
IP Code		IP 65	IP 65	IP 67	IP 67	IP 68
Environmental		-20~70°C	-10~70°C	-20~70°C	-20~70°C	-40~85°C
TX Power		26 dBm	18 dBm	18 dBm	18 dBm	25 dBm
Wireless Mode	AP	■	■	■	■	■
	AP Client	■	■	■	■	■
	WDS (Bridge)	■	■	■	■	■
	AP + WDS	■	-	-	-	-
	Repeater	■	■	■	-	-
	WISP	■	-	-	-	■
Routing		■	-	-	-	-

WLAN Mesh

MAP-2000 / MAP-2000R / MAP-2100

802.11a/b/g Wireless Mesh Network Access Point

- Wireless LAN IEEE802.11a/b/g compliant
- Point-to-Point, Point-to-MultiPoint bridge
- Dual wireless interfaces for independent Backhaul link and local clients connection
  - 2 x IEEE802.11a/b/g adapters
- Adjustable output power: 50mW, 25mW, 13mW, and 6mW
- Supports full dynamic routing (layer 3) between all node APs
  - MDOLSR, modified dynamic optimized link state routing protocol
- Central management software
  - AES backhaul communication
- Supports 802.1x/ WPA PSK mechanisms
- Supports QoS, SNMP v2/v3
- Operating temperature: -20~70°C (MAP-2000/2000R)

	MAP-2000	MAP-2000R	MAP-2100
Installation	Outdoor	Outdoor	Indoor
Connector	N-type x 2	N-type x 2	Reverse SMA x 2
PoE	■	■	-
Case	IP 66	IP 66	-

MAP-2000

MAP-2100

MAP-3100 / MAP-3120 / MAP-3020

802.11a/b/g Wireless Mesh Network Access Point

- Wireless LAN IEEE802.11a/b/g compliant
- Dual wireless interfaces for independent Backhaul link and local clients connection
  - 2 x IEEE802.11a/b/g adapters
- OLSR, optimized link state routing protocol
- Self-healing and Self-Configuration, Plug and Play installation
- Adjustable output power
- Central management software
  - AES backhaul communication
- IEEE 802.1q VLAN, multiple VLAN/SSID supports
- IEEE 802.1x, IEEE802.1i WPA/ WPA2, and VPN pass-through mechanisms
- Supports Wireless Separation, Watchdog mechanism
- Supports SNMP v2c, v3
- IEEE 802.3af Power over Ethernet capable

	MAP-3100	MAP-3120	MAP-3020
Protocol	OLSR+ADOV	ADOV	ADOV
Operating Mode	Layer 2, 3	Layer 2	Layer 2
WAN Setting	■	-	-
VPN Client	■	-	-
Installation	Indoor	Indoor	Outdoor

MAP-3120

MAP-3020

Wireless Presentation Gateway / Hot Spot gateway / Wireless LAN Switch

WPG-110

Wireless Presentation Gateway

- Wireless presentation, no more cable swapped
- Video projection, projecting your video files on the screen through WLAN / LAN
- Compatible to all projectors with standard VGA connectors
- One-Click to switch presenters' displays
- Real time display for presentations, images and applications
- Supports output resolution up to 1280x768 with 32-bit color
- No CD installation is required. Software is directly downloaded from device
- Provides session security login and wireless WEP mechanism
- Conference control function is provided for the host to moderate a meeting
- Provides friendly web-based user interface for easy configuration
- Supports static-IP and DHCP server

WPG-110

WSG-404

54Mbps Hot Spot Wireless Subscriber Gateway

- Wireless LAN IEEE802.11a/b/g compliant
- Zero configuration (Plug-n-Play) Internet access
- Built-in proprietary AAA mechanism and billing system
- RADIUS AAA support
- With built-in 64/128-bit RC4 WEP Encryption, VLAN Security for Wireless, subscriber SSL Login Page / Admin Page, VPN (IPSec/PPTP) Pass through
- Exclusive Printer Accounting - (WSG-ACG4 Optional)
- Virtual Server & DMZ Capability

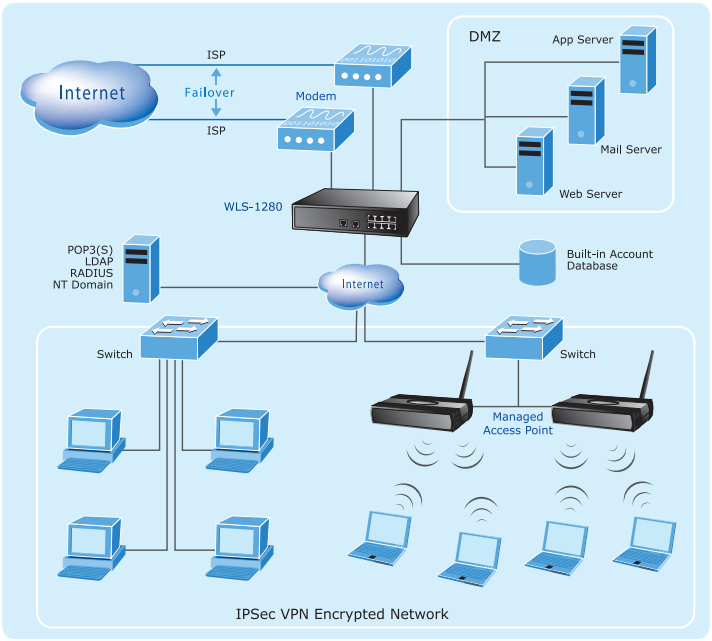
WSG-404

WLS-1280

Wireless LAN Switch/Security Gateway

- 64/128-bit WEP, WPA, and WPA2 data encryptions
- DoS attack protection
- MAC Access Control List
- up to 12 managed APs
- RADIUS accounting, RADIUS VSA (Vendor Specific Attributes)
- up to 120 concurrent users
- Supported AP: WAP-4033/WAP-4033PE/WAP-4060PE
- Supports Router, NAT mode
- Built-in hardware-based VPN accelerator
- Provides 500 local accounts and 2000 on-demand accounts
- Customizable login and logout portal page

WLS-1280



Wireless LAN Accessories

2.4G / 5GHz Antennas

ANT-OM5
5dBi Desktop Antenna

ANT-SE18
12-18dBi Adjustable Seetor Antenna

ANT-OM5A
2.4/5GHz 3/5dBi Dual-Band Omni-directional Antenna

ANT-OM5N
2.4GHz 802.11n Desktop Antenna

ANT-FP18
18dBi Flat-Panel Directional Antenna

ANT-OM10A
5GHz 10dBi Omni-directional Antenna

ANT-OM7D
2.4GHz 7dBi Omni Directional Antenna (Directly install on AP)

ANT-YG13
13dBi Yagi Directional Antenna

ANT-SE17A
5GHz 17dBi Sector Antenna

ANT-OM8
8dBi Omni Directional Antenna

ANT-YG20
20dBi Yagi Directional Antenna

ANT-FP18A
5GHz 18dBi Flat Panel Antenna

ANT-OM15
15dBi Omni Directional Antenna

ANT-GR21
2.4GHz 21dBi Grid Directional Antenna

Accessories

WBT-210
- Compatible with 802.11b and 802.11g
- Die-Casting Aluminum
- Plug & Play installation
- Extending transmission distance
- 500mW, 27dBm+1.5dB (11b, 11Mbps)
- 250mW, 24dBm+1.5dB (11g, 54Mbps)

WL-LTN
Lightning Arrester (N male to N female) Point

WL-MMC
0.3M R-MMCX(F) to R-SMA(M) Cable

WL-N-0.6
0.6 Meter N(male) to N(male) Cable

WL-N-10
10M N(F) to N(M) Cable

WL-NM-0.6
0.6 Meter N(male) to N(male) Cable

WL-SMA-0.6
0.6M R-SMA(F) to N(M) Cable

WL-SMA-6
6M R-SMA(F) to N(M) Cable

WBT-210

WL-LTN

WL-NM-0.6

Applications :